## SPU/SDoT Design Drafting Guidelines

These checklists are designed to guide you through Seattle Public Utilities' design drafting process. There is no guarantee that the links below are unbroken; contact your SPU representative for the latest information.

During 30% Design Development				
	Downlo	ownload CAD support files at: <a href="http://www.seattle.gov/util/Engineering/CAD_Resources/">http://www.seattle.gov/util/Engineering/CAD_Resources/</a>		
	Becom	ecome familiar with the latest version of the <u>CAD Manual</u> .		
	Setup project folders and drawings (see Section 3 of the <u>CAD Manual</u> ).			
	☐ Set up sheet drawings with PE stamps.			
	☐ Create cover sheet.			
			Vicinity Map	
			Location Map	
			Sheet Index	
			Datum Block (if applicable)	
			Detail & Section Referencing Block	
	☐ Create notes sheet (see <u>SIP web page</u> for sample notes).			
	☐ Setup survey control drawing with PLS stamp.			
	☐ Set up a "view" drawing (XREF) that contains match lines on even stations and model spa			
		views. This	drawing will be used to save-as and create all other plan/profile XREFs.	
	☐ XREF base map into sheets and create plan viewports based on the "view" drawing using			
	Sheet Set Manager.			
		Create desi	ign XREFs (save-as the "view" drawing to create each design drawing).	
			Layout the design under the direction of the project engineer.	
			Create profiles (with match lines that match stationing on plan) if required.	
			Add annotation based on planned viewport scale(s).	
		Overlay de	sign XREFs in sheets and create viewports for profiles if required.	
	Check SPU Design Standards & Guidelines for 30% drawing requirements.			
lacktriangle Check and plot drawing set for interdepartmental plans circulation (make PDF and			wing set for interdepartmental plans circulation (make PDF and DWF snapshots)	
	per Sec	ction 8 of the	e <u>CAD Manual</u> .	
Send the DWG files, PDF file and DWF file to Project Manager for			s, PDF file and DWF file to Project Manager for review per Section 10 of the <u>CAD</u>	
	Manual.			

improvement.

Dυ	rring 60% Design Development			
	Continue developing the drawings under the direction of the project engineer.			
	☐ Track and log changes during design development.			
	☐ Check design sketch for constructability throughout drafting progress, remind designer of			
	any noted interference or constructability concerns.			
	Follow the drafting & presentation guidelines (see Section 4 of the CAD Manual).			
	☐ Setup detail numbers and titles using Sheet Set Manager (add cross-referencing blocks			
	containing fields linked to Sheet Set Manager).			
	☐ Lock Viewports.			
	Acquire Vault Plan Index (VPI) number from SPU Engineering Records Center (Records Vault).			
	If SIP required, ensure drawings meet the <u>60% SIP checklist requirements</u> .  Check SPU Design Standards & Guidelines for 60% drawing requirements.			
	Check and plot drawing set for interdepartmental plans circulation (make PDF and DWF snapshots)			
	per Section 8 of the <u>CAD Manual</u> .			
	Send the DWG files, PDF file and DWF file to Project Manager for review per Section 10 of the <u>CAD</u>			
	Manual.			
D	uring 000/ Docign Davidonment			
	uring 90% Design Development			
	Go through the checklists in Section 4 of the CAD Manual.			
	Prepare utility linework per Section 6 of the <u>CAD Manual</u> .			
	If SIP required, ensure drawings meet the <u>90% SIP checklist requirements</u> .  Check SPU Design Standards & Guidelines for 90% drawing requirements.			
	Check and plot drawing set for interdepartmental plans circulation (make PDF and DWF snapshots)			
П	per Section 8 of the CAD Manual.			
_	Send the DWG files, PDF file and DWF file to Project Manager for review per Section 10 of the <u>CAD</u> Manual.			
	<u>Martual</u> .			
At	100% or Time of Advertisement			
	Clean up network project folder; delete erroneous drawing files & blocks not used, back up files, etc			
	☐ Archive the drawings			
	Prepare drawings & data per Section 10 of the <u>CAD Manual</u> and transmit to Project Manager.			
	☐ Create 100% PDF snapshot (using "DWG To PDF.pc3") for reference			
	Create 100% DWF snapshot for comparison against earlier submittals			
	Send design data and copies of the advertised drawing set for construction staking/field verification.			
	☐ LandXML of proposed pipe alignments/profiles (inverts) and proposed surfaces.			
	☐ 1 full-size and 2 half-size prints.			

☐ Setup a "lessons learned" meeting to celebrate accomplishments and discuss opportunities for